



Attorney Docket No. 24170
BOX PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE **RECEIVED**

In re Application of:

OCT 28 2002

TECH CENTER 1600/2900

KIM et al.

Serial No.: 09/627,165

Group Art Unit: 1653

Filed: July 27, 2000

Examiner: Kam

For: CRUDE EXTRACT FROM *Viscum album coloratum*, AND PROTEINS AND LECTINS ISOLATED THEREFROM

APPENDIX E - "Clean" copy of Specification Amendments

Commissioner for Patents
Washington, D.C. 20231

Sir:

Please amend the Specification as follows:

On page 15, lines 8 through 9, please make the following corrections to the Specification:

C1
Primer 1: 5' -GTIACICAT CAIACIGG-3' (SEQ. ID. NO. 17)

Primer 2: 5' -ACIATICGC ACIFTIGGTC-3' (SEQ. ID. NO. 18)

On the page 42, lines 13 through 22, please make the following corrections to the Specification:

| Lectin | Chain(Mw.) | Amino Acid Sequence | | | | |
|---------|------------|---------------------|-------|-------------|-------------|-------------------|
| | | 1 | 10 | 20 | 30 | |
| KML-IIU | A(30KDa) | YEREK | LRVTH | QTTGD QYFKF | ITLLA DQHS | (SEQ. ID. NO. 19) |
| KML-IIL | A(27.5KDa) | YEREK | LRVTH | QTTGD EYFRF | ITLLA DTV | (SEQ. ID. NO. 20) |
| EML-I | A(29KDa) | YEREK | LRVTH | QTTGD EYFRF | ITLLA DTVSS | (SEQ. ID. NO. 21) |
| | | 1 | 10 | 20 | 30 | |
| KML-IIU | B(32.5KDa) | unidentified | | | | |
| KML-IIL | B(31KDa) | DVTXT | ASEPT | VRI | | (SEQ. ID. NO. 22) |
| EML-I | B(34KDa) | DDVTS | SASEP | TVRIV | GRNGM | (SEQ. ID. NO. 23) |

Primer 1: 5' -GTIACICAT CAIACIGG-3' (SEQ. ID. NO. 17)

Primer 2: 5' -ACIATICGC ACIFTIGGTC-3' (SEQ. ID. NO. 18)

On page 50, lines 19 through 28, please make the following corrections to the Specification:

| <A Chain> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------------------|---|-------------------|-------------------|
| II U | | | Y | E | R | L | K | L | Y | - | V | T | H | | | | | | | | | | | | | | | (SEQ. ID. NO. 24) | | | |
| II L | | | Y | E | R | L | R | L | R | - | V | T | H | Q | T | T | G | D | E | Y | F | R | F | I | T | L | L | R | D | (SEQ. ID. NO. 25) | |
| GI | | | | | | | | | | | | | | H | Q | T | T | G | D | E | Y | F | R | F | I | T | L | L | R | D | (SEQ. ID. NO. 26) |
| EMLA | | | Y | E | R | L | R | L | R | - | V | T | H | Q | T | T | G | E | E | Y | F | R | F | I | T | L | L | R | D | (SEQ. ID. NO. 27) | |
| RTA | I | F | P | K | Q | Y | P | I | I | N | F | T | T | A | G | A | T | V | Q | S | Y | T | N | F | I | R | A | V | R | G | (SEQ. ID. NO. 28) |
| ABA | | | E | D | R | P | I | - | K | F | S | T | E | G | A | T | S | Q | S | Y | K | Q | F | I | E | A | L | R | E | (SEQ. ID. NO. 29) | |
| II U | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | (SEQ. ID. NO. 30) | |
| II L | Y | V | | | | | | | | | | | | | | | | | | | | | | | | | | | | (SEQ. ID. NO. 31) | |
| CI | Y | V | S | S | G | S | F | S | N | | E | I | P | L | L | R | Q | S | T | I | P | V | S | D | A | Q | R | F | V | L | |

On page 51, lines 1 through 15, please make the following corrections to the Specification:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------------------|
| EMLA | Y | V | S | S | G | S | P | S | N | | E | I | P | L | L | R | Q | S | T | I | P | V | S | D | A | Q | R | F | V | L | (SEQ. ID. NO. 32) |
| RTA | R | L | T | T | G | A | D | V | R | H | E | I | P | V | L | P | N | R | V | G | L | P | - | I | N | Q | R | F | I | L | (SEQ. ID. NO. 33) |
| ABA | R | L | R | G | G | L | - | - | I | H | D | I | P | V | L | P | D | P | T | T | L | Q | - | E | R | L | R | Y | I | T | (SEQ. ID. NO. 34) |
| CI | V | E | L | T | N | Q | G | G | D | - | S | I | T | A | A | I | D | V | T | N | L | Y | V | V | A | Y | Q | A | G | D | (SEQ. ID. NO. 35) |
| EMLA | V | E | L | T | N | Q | G | Q | D | - | S | V | T | T | A | I | D | V | T | N | A | Y | V | V | A | Y | Q | A | G | D | (SEQ. ID. NO. 36) |
| ABA | V | E | L | S | N | H | A | - | E | L | S | V | T | L | A | E | D | V | T | N | A | Y | V | V | G | Y | R | A | G | N | (SEQ. ID. NO. 37) |
| ANA | V | E | L | S | N | S | D | T | E | - | S | I | E | V | G | I | D | V | T | N | A | Y | V | V | A | Y | R | A | G | T | (SEQ. ID. NO. 38) |
| CI | Q | S | Y | F | L | R | - | D | A | P | D | G | A | E | - | - | R | H | L | E | T | G | T | T | R | - | - | - | - | - | (SEQ. ID. NO. 39) |
| EMLA | Q | S | Y | F | L | R | - | D | A | P | R | G | A | E | - | - | T | H | L | E | T | G | T | T | R | - | - | - | - | - | (SEQ. ID. NO. 40) |
| RTA | S | A | Y | F | F | H | P | D | N | Q | E | D | A | E | A | I | T | H | L | E | T | - | - | - | - | D | V | Q | N | R | (SEQ. ID. NO. 41) |
| ABA | Q | S | Y | F | L | R | | D | A | P | S | S | A | S | D | Y | - | - | L | E | T | G | T | - | - | D | - | Q | H | - | (SEQ. ID. NO. 42) |
| CI | S | S | L | P | F | T | G | S | Y | T | D | - | L | E | R | Y | A | G | H | - | - | R | D | Q | I | P | L | G | - | - | (SEQ. ID. NO. 43) |
| EMLA | S | S | L | P | F | N | G | S | Y | P | D | - | L | E | R | Y | A | G | H | - | - | R | D | Q | I | P | L | G | - | - | (SEQ. ID. NO. 44) |
| RTA | Y | E | T | A | F | G | G | N | Y | - | D | R | L | E | Q | L | A | G | - | N | L | R | E | N | I | E | L | G | N | G | (SEQ. ID. NO. 45) |
| ABA | - | S | L | P | F | Y | G | T | Y | G | D | - | L | E | R | W | A | - | H | Q | S | R | Q | Q | I | P | L | G | L | D | (SEQ. ID. NO. 46) |

On page 51, line 24 through 31, please make the following corrections to the Specification:

<A chain>

| <A chain> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C1 | - | I | E | E | L | I | Q | S | V | S | A | L | - | - | I | Y | P | G | G | - | - | - | S | T | R | A | Q | A | R | S | | |
| EMLA | - | I | D | Q | L | I | Q | S | V | T | A | L | - | - | I | F | P | G | G | - | - | - | S | T | R | T | Q | A | R | S | | |
| RTA | P | L | E | E | A | I | - | - | - | S | A | L | Y | Y | Y | S | Y | G | G | T | Q | L | P | T | L | - | - | A | R | S | | |
| ABA | A | L | T | H | G | T | - | - | - | S | F | F | - | - | R | S | - | G | G | N | D | N | E | E | K | - | - | A | R | T | | |
| C2 | | | | | | | | | | | | | A | R | E | N | P | I | X | W | R | L | R | R | Q | - | I | N | S | G | E | S |
| C1 | L | I | I | L | I | Q | M | I | S | E | A | A | R | E | N | P | I | F | W | R | - | A | R | Q | Y | I | N | S | G | E | S | |
| EMLA | I | L | I | L | I | Q | M | I | S | E | A | A | R | E | N | P | I | L | W | R | - | Y | R | Q | Y | I | N | S | G | A | S | |

(SEQ. ID. NO. 47)

(SEQ. ID. NO. 48)

(SEQ. ID. NO. 49)

(SEQ. ID. NO. 50)

(SEQ. ID. NO. 51)

(SEQ. ID. NO. 52)

(SEQ. ID. NO. 53)

On page 53, line 5 through 11, please make the following corrections to the Specification:

09

| <8 chain> | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|
| IIL | | D | V | T | C | T | A | S | E | C | T | V | R | I | | | | | | | | | | | |
| C2 | | D | V | T | X | T | X | S | E | P | T | V | R | I | V | | | | | | | | | | |
| CI | D | D | V | T | C | T | A | S | E | P | T | V | R | I | V | | | | | | | | | | |
| EMLB | D | D | V | T | S | S | A | S | E | P | T | V | R | I | V | G | R | N | G | M | | | | | |
| RTB | A | D | V | C | M | D | P | - | E | P | I | V | R | I | V | G | R | N | G | M | | | | | |
| ABB | S | K | I | C | S | S | R | Y | E | P | T | V | R | I | G | G | R | D | G | M | | | | | |

(SEQ. ID. NO. 75)

(SEQ. ID. NO. 76)

(SEQ. ID. NO. 77)

(SEQ. ID. NO. 78)

(SEQ. ID. NO. 79)

(SEQ. ID. NO. 80)